TABLES

TABLE 2-1

Monitoring Schedule EW-108 Aquifer Pumping Test
Muscoy Operable Unit

Potential Observation Wells	Distance from Pumping Well (feet)	Owner or Operator	Electronic Monitoring	Logging Type	Monitoring Frequency	Manual Monitoring	Screen Elevations (feet)
EW-1 A/B	2,290	EPA	yes	SCADA	logarithmic	twice during pump test	(A)714-694 (B)114-94
EW-2 A/B	3,003		yes	SCADA	logarithmic	twice during pump test	(A)862-842 (B)221-192
EW-3 A/B	3,611		yes	SCADA	logarithmic	twice during pump test	(A)860-840 (B)330-310
EW-4 A/B	4,439		yes	SCADA	logarithmic	twice during pump test	(A)776-756 (B)106-86
EW-5 A/B	5,437		yes	SCADA	logarithmic	twice during pump test	(A)853-833 (B)203-183
EW-108 A/B	0		yes	SCADA	logarithmic	twice during pump test	(A)750-730 (B)380-360
EW-112 A/B	6,862		yes	SCADA	logarithmic	twice during pump test	(A)882-862 (B)522-502
MW-10 A/B/C	3,162		yes	Hermit	logarithmic	twice during pump test	(A)777-747 (B)637-607 (C)377-347
MW-11 A/B/C	3,877		yes	Hermit	logarithmic	twice during pump test	(A)601-571 (B)331-301 (C)31-1
MW-12 A/B/C	2,391		yes	Hermit	logarithmic	twice during pump test	(A)849-819 (B)419-389 (C)49-19
MW-13 A/B/C	3,794		yes	Hermit	logarithmic	twice during pump test	(A)713-683 (B)553-523 (C)263-233
MW-14 A/B/C	5,001		yes	Hermit	logarithmic	twice during pump test	(A)806-776 (B)506-476 (C)16-6
MW-15 A/B/C	6,601		yes	Hermit	logarithmic	twice during pump test	(A)550-520 (B)380-350 (C)50-20
MW-128 A/B/C	7,717		yes	INW	10-min interval	twice during pump test	(A)805-775 (B)525-495 (C)355-325
MW-129 A/B/C	7,603		yes	INW	10-min interval	twice during pump test	(A)756-726 (B)469-439 (C)348-318
MW-130 A/B/C	4,983		yes	INW	logarithmic	twice during pump test	(A)835-805 (B)625-595 (C)285-255
MW-135 A/B/C	1,398		yes	INW	logarithmic	twice during pump test	(A)752-732 (B)492-472 (C)262-242
MW-136 A/B/C	2,970		yes	INW	logarithmic	twice during pump test	(A)702-682 (B)622-602 (C)392-372
MW-137 A/B/C	4,874		yes	INW	logarithmic	twice during pump test	(A)815-795 (B)625-605 (C)355-335
MW-138 A/B/C	6,087		yes	INW	10-min interval	twice during pump test	(A)837-817 (B)607-587 (C)197-177
MW-139 A/B/C	7,755		yes	INW	10-min interval	twice during pump test	(A)809-789 (B)629-609 (C)379-359
16TH and Crestview	8,272	USGS	no		–	twice during pump test	NA
16TH and Sierra Way	4,485		no		–	twice during pump test	NA
Garner Park	4,898		yes		15-min interval[a]	twice during pump test	960-946, 879-864, 584-570
Hanford 1	7,988		no		–	twice during pump test	NA
Meadowbrook Park	8,040		yes		15-min interval[a]	twice during pump test	915-895, 715-695, 335-315
Serria High School	7,707		yes		15-min interval[a]	twice during pump test	907-887, 737-677, 557-547
USGS Fifth & Serria	6,853		no		–	twice during pump test	NA
Well No. 9	12,957		yes		10-min interval	twice during pump test	NA
Rialto #5	12,646	Rialto	no			twice during pump test	NA
Antil #1 or #2	10,173	SBMWD	no		–	twice during pump test	NA
Baseline & California	9,500		yes	Mini Troll	10-min interval	twice during pump test	836-136
Gilbert Street	6,264		no		–	twice during pump test	643-520, 498-438
Olive & Garner	4,318		yes	INS	logarithmic	twice during pump test	780-80
7th Street	6,490		no		–	twice during pump test	NA
10th & J Street	2,836		yes	INW	logarithmic	twice during pump test	NA
11th & E Street	1,819		yes	Mini Troll	logarithmic	twice during pump test	NA
17th Street #1	4,462		no		–	twice during pump test	NA
19th Street #2	9,446		yes	Mini Troll	10-min interval	twice during pump test	766-724, 682-663, 661-625, 590-578
9th Street	4,592		no		–	twice during pump test	NA
Parris	3,606		no		–	twice during pump test	NA
#15	9,841	WSBCWD	no		–	twice during pump test	NA
#30	10,871		no		–	twice during pump test	NA
Baro @ MW 137		EPA	yes	INW	logarithmic	twice during pump test	NA

[a] These dataloggers are operated by the USGS on a fixed 15-minute interval logging cycle.
EPA = United States Environmental Protection Angency
INS = In Situ, Inc.
INW = Instrumentation Northwest, Inc.
NA = not available
Rialto = City of Rialto
SBMWD = San Bernardino Municipal Water Department
SCADA = Supervisory Control and Data Acquisition
WSBCUD = Western San Bernardino County Water District
USGS = U.S. Geological Survey

TABLE 2-2

Monitoring Schedule EW-112 Aquifer Pumping Test
Muscoy Operable Unit

Potential Observation Wells	Distance from Pumping Well (feet)	Owner or Operator	Electronic Monitoring	Logging Type	Monitoring Frequency	Manual Monitoring	Screen Elevations (feet)
EW-2 A/B	9696	EPA	yes	SCADA (3)	logarithmic	twice during pump test	(A)862-842 (B)221-192
EW-3 A/B	10359		yes	SCADA (3)	logarithmic	twice during pump test	(A)860-840 (B)330-310
EW-4 A/B	11188		yes	SCADA (3)	logarithmic	twice during pump test	(A)776-756 (B)106-86
EW-5 A/B	12220		yes	SCADA (3)	logarithmic	twice during pump test	(A)853-833 (B)203-183
EW-108 A/B	6862		yes	SCADA (3)	logarithmic	twice during pump test	(A)750-730 (B)380-360
EW-112 A/B	0		yes	SCADA (3)	logarithmic	twice during pump test	(A)882-862 (B)522-502
MW-10 A/B/C	9831		yes	Hermit	10-min Interval	twice during pump test	(A)777-747 (B)637-607 (C)377-347
MW-11 A/B/C	10729		yes	Hermit	10-min Interval	twice during pump test	(A)601-571 (B)331-301 (C)31-1
MW-12 A/B/C	8350		yes	Hermit	10-min Interval	twice during pump test	(A)849-819 (B)419-389 (C)49-19
MW-13 A/B/C	10328		yes	Hermit	10-min Interval	twice during pump test	(A)713-683 (B)553-523 (C)263-233
MW-14 A/B/C	11653		yes	Hermit	10-min Interval	twice during pump test	(A)806-776 (B)506-476 (C)16-6
MW-15 A/B/C	13332		yes	Hermit	10-min Interval	twice during pump test	(A)550-520 (B)380-350 (C)50-20
MW-128 A/B/C	4821		yes	INW	logarithmic	twice during pump test	(A)805-775 (B)525-495 (C)355-325
MW-129 A/B/C	1515		yes	INW	logarithmic	twice during pump test	(A)756-726 (B)469-439 (C)348-318
MW-130 A/B/C	4488		yes	INW	logarithmic	twice during pump test	(A)835-805 (B)625-595 (C)285-255
MW-135 A/B/C	6312		yes	INW	logarithmic	twice during pump test	(A)752-732 (B)492-472 (C)262-242
MW-136 A/B/C	4648		yes	INW	logarithmic	twice during pump test	(A)702-682 (B)622-602 (C)392-372
MW-137 A/B/C	2502		yes	INW	logarithmic	twice during pump test	(A)815-795 (B)625-605 (C)355-335
MW-138 A/B/C	1608		yes	INW	logarithmic	twice during pump test	(A)837-817 (B)607-587 (C)197-177
MW-139 A/B/C	1773		yes	INW	logarithmic	twice during pump test	(A)809-789 (B)629-609 (C)379-359
16TH and Crestview	14979	USGS	no		--	twice during pump test	NA
16TH and Sierra Way	11000		no		--	twice during pump test	NA
Garner Park	4654		yes		15-min Interval[a]	twice during pump test	960-946, 879-864, 584-570
Hanford 1	12262		no		--	twice during pump test	NA
Meadow Park	13071		yes		15-min Interval[a]	twice during pump test	915-895, 715-695, 335-315
Serria High School	14515		yes		15-min Interval[a]	twice during pump test	907-887, 737-677, 557-547
USGS Fifth & Serria	13321		no		--	twice during pump test	NA
Well No. 9	6182		yes		10-min Interval	twice during pump test	NA
Rialto #5	5872	Rialto	no			twice during pump test	NA
Antil #1 or #2	16726	SBMWD	no		--	twice during pump test	NA
Baseline & California	2762		yes	Mini Troll	logarithmic	twice during pump test	836-136
Gilbert Street	13019		no		--	twice during pump test	643-520, 498-438
Olive & Garner	3601		yes	Mini Troll	logarithmic	twice during pump test	780-80
7th Street	12908		no		--	twice during pump test	NA
10th & J Street	5448		yes	Mini Troll	logarithmic	twice during pump test	NA
11th & E Street	8262		yes	Mini Troll	10-min Interval	twice during pump test	NA
17th Street #1	10878		no		--	twice during pump test	NA
19th Street #2	3540		yes	Mini Troll	logarithmic	twice during pump test	766-724, 682-663, 661-625, 590-578
9th Street	4388		no		--	twice during pump test	NA
Parris	5508		no		--	twice during pump test	NA
#15	4421	WSBCWD	no		--	twice during pump test	NA
#30	5142		no			twice during pump test	NA
Baro@MW 137		EPA	INW		logarithmic	twice during pump test	NA

[a] These dataloggers are operated by the USGS on a fixed 15-minute interval logging cycle.
EPA = United States Environmental Protection Angency
INS = In Situ, Inc.
INW = Instrumentation Northwest, Inc.
NA = not available
Rialto = City of Rialto
SBMWD = San Bernardino Municipal Water Department
SCADA = Supervisory Control and Data Acquisition
WSBCUD = Western San Bernardino County Water District
USGS = U.S. Geological Survey

TABLE 2-3

2003 Pumping Test Summary
Muscoy Operable Unit
(Uncorrected for Regional Trend)[a]

Pumping Well	Observation Well	Distance from Pumping Well	Aquifer Thickness (feet)	Maximum Drawdown (feet)	Regional Water Level Trend[b] (ft/day)	Adjusted Drawdown[c]	Theis T (ft^2/day)	Theis K (ft/day)	Theis S
EW-108	MW-135B	1,398	600	8.31	-0.27	7.22	2.55E+04	42.5	2.17E-04
	MW-135C	1,398	600	6.22	-0.41	4.57	3.44E+04	57.3	3.21E-04
	EW-1PB	2,290	600	3.27	-0.42	1.59	4.28E+04	71.3	1.08E-03
	MW-12C	2,391	600	4.80	-0.44	3.04	3.36E+04	56.1	3.02E-04
	MW-12B	2,391	600	5.38	-0.41	3.74	2.83E+04	47.2	3.28E-04
	MW-136C	2,970	600	5.33	-0.27	4.24	2.80E+04	46.7	4.48E-04
	MW-10A	3,162	600	1.62	-0.07	1.35	2.57E+04	42.8	6.07E-03
	MW-10B	3,162	600	2.50	-0.28	1.39	6.08E+04	101.0	7.91E-04
	MW-10C	3,162	600	2.69	-0.30	1.47	6.37E+04	106.0	5.86E-04
	MW-13B	3,794	600	2.78	-0.46		5.46E+04	91.0	5.51E-04
	MW-13C	3,794	600	2.76	-0.47	0.86	5.48E+04	91.4	7.15E-04
	MW-11A	3,877	600	2.50	-0.41	0.88	6.07E+04	101.2	6.53E-04
	MW-11C	3,877	600	2.69	-0.43	0.98	5.56E+04	92.7	7.60E-04
	MW-130C	4,983	600	3.60	-0.29	2.43	3.56E+04	59.3	4.19E-04
	MW-14B	5,001	600	2.97	-0.56	0.72	5.35E+04	89.2	8.50E-04
	MW-14C	5,001	600	2.51	-0.47	0.63	6.89E+04	115.0	7.07E-04
	MW-138C	6,087	600	3.14	-0.31	1.88	2.29E+04	38.2	8.34E-04
	MW-128C	7,717	600	2.51	-0.25	1.51	2.81E+04	46.8	7.09E-04
AraMean							4.32E+04	72.0	9.08E-04
GeoMean							4.05E+04	67.4	6.34E-04
Median							3.92E+04	65.3	6.80E-04
SD							1.56E+04	26.1	1.31E-03
EW-112	MW-129A	1,515	620	3.56			3.90E+04	62.9	2.12E-03
	MW-129B	1,515	620	5.71			1.97E+04	31.8	7.83E-04
	MW-139A	1,773	620	3.69			2.96E+04	47.7	5.49E-04
	MW-139B	1,773	620	4.37			1.88E+04	30.3	8.35E-04
	MW-139C	1,773	620	4.20			2.96E+04	47.7	1.51E-03
	MW-138A	1,608	620	5.49			3.26E+04	52.6	1.70E-04
	MW-137A	2,502	620	4.36			3.05E+04	49.3	2.57E-04
	MW-137B	2,502	620	4.69			1.71E+04	27.5	9.50E-04
	MW-137C	2,502	620	2.38			3.04E+04	49.0	3.61E-03
	MW-136A	4,649	620	2.36			3.15E+04	50.8	1.16E-03
	MW-136B	4,649	620	1.88			3.07E+04	49.5	1.49E-03
AraMean							2.81E+04	45.4	1.22E-03
GeoMean							2.73E+04	44.0	8.96E-04
Median							3.04E+04	49.0	9.50E-04
SD							6.72E+03	10.8	9.79E-04

TABLE 2-3

2003 Pumping Test Summary
Muscoy Operable Unit
(Uncorrected for Regional Trend)[a]

Note: Aquifer thickness for EW-108 is 600 feet.
Aquifer thickness for EW-112 is 620 feet.

[a] Adjustments to calculated aquifer parameters were evaluated based on the regional water-level trend. As discussed in the text, adjustments/corrections to the aquifer parameters were not considered necessary.

[b] Represents calculated regional water-level decreases (not related to pumping) during the EW-108 test.

[c] Represents calculated drawdown minus the regional trend.

EW = extraction well

ft/day = feet per day

ft^2/day = square feet per day

K = hydraulic conductivity

S = storage coefficient

SD = standard deviation

T = transmissivity